CHECK INN

Formal Project Report

GROUP -08

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CHECK INN

INTRODUCTION

THE NAME OF THE PROJECT IS "CHECK INN" BASED ON THE HOTEL MANAGEMENT SYSTEM. THE OBJECTIVE OF THE PROJECT IS TO COMPUTERIZE THE SYSTEM OF THE HOTEL. "CHECK INN'' IS THE PROJECT THAT NOT ONLY KEEPS THE RECORD OF VARIOUS PEOPLE LIKE CUSTOMERS, MANAGERS ETC. BUT AS WELL AS IT REDUCES THE EXTENSIVE PAPERWORK IN THE PRESENT SYSTEM MANUALLY. IT WILL MAKE THE SYSTEM MORE VERSATILE AND USER FRIENDLY. BY THE SAME TOKEN, KEEP THE TRACK OF ALL KINDS OF DATA FROM THE FIRST. IT ALSO CALCULATES THE PROPER BILLING SLIP OF CUSTOMERS AS THEY WANT TO. THIS PROJECT IS BASED ON DESCRIPTION ABOUT THE STRUCTURE OF HOTEL MANAGEMENT SYSTEM.
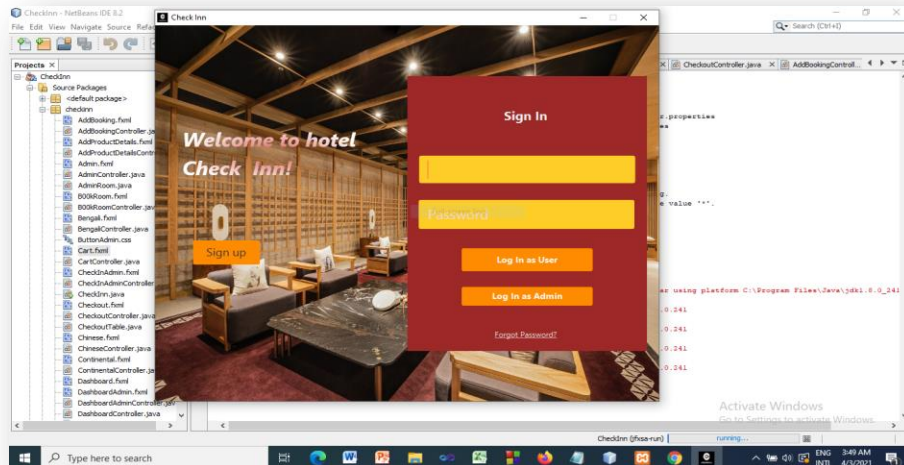
THE PROJECT CONTAINS:

- RAPID PROCESS OF RESERVATION. USERS CAN FIND INSTANT WHETHER A ROOM IS AVAILABLE OR NOT.
- KEEPING THE RECORD OF ALL PERSONS LIKE CUSTOMERS, MANAGERS WITH THEIR DETAILS ETC.
- MAINTAINS A PROPER LIST OF ALL PERSONS FROM GUESTS TO PERSONNEL.
- ENSURING PROPER DETAILED BILL SLIPS.
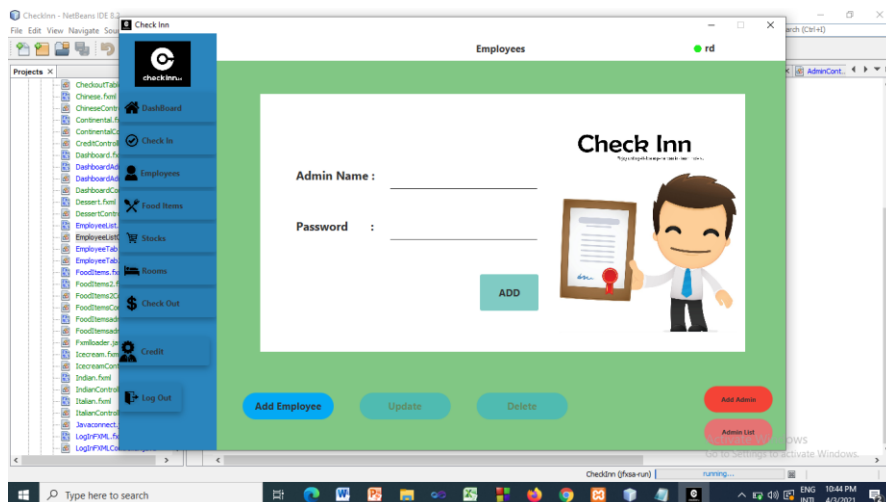
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MOTIVATION BEHIND SELECTING THE PROJECT

THE MAIN OBJECTIVE OF THE ENTIRE ACTIVITY IS TO AUTOMATE THE PROCESS OF DAY TO DAY ACTIVITIES OF THE HOTEL. CURRENTLY IN MANY HOTELS ALL THE WORK IS DONE MANUALLY. USING THIS SYSTEM "CHECK INN" WE CAN MANAGE

- **Room activities**
- **Keep track of admission of a New Customer on cue**
- **Additionally, check rooms according to the customer's need**
- **Assign rooms easily to the customer**
- **Checkout of a customer and updating the releasing room information in the system is very easy where manually it's very time consuming.**
- **When the user does, the checkout system will generate the final bill after calculating all the bills avoiding manual error chances.**
- **Users can also check online, all the packages available**
- **Also book rooms online and cancel booked rooms online.**
- **Hotel management can also check the list of Regular customers and feedback of the hotel's customer.**
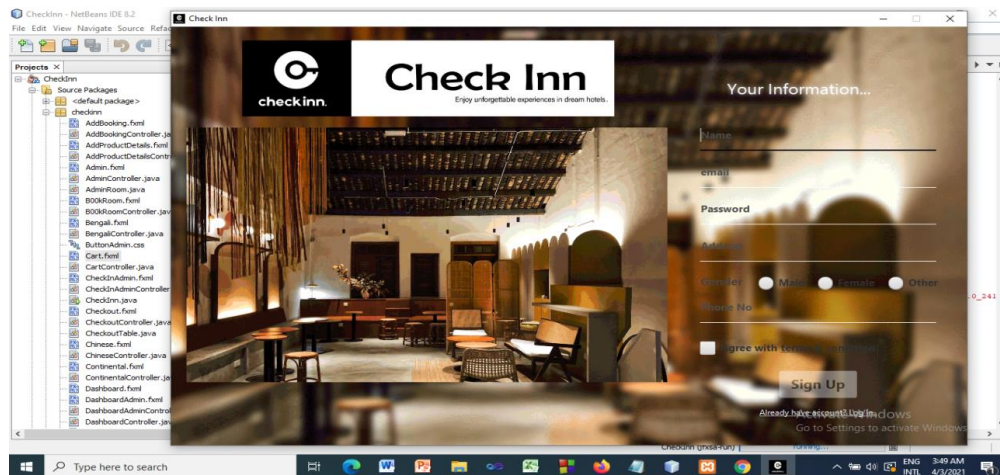
LOG IN SECTION

- **LOG IN:** THE SYSTEM HAS A USER/ADMIN LOGIN PROCEDURE IN PLACE TO PREVENT UNAUTHORIZED PERSONNEL FROM ACCESSING THE SYSTEM. ANYONE WITH SYSTEM ACCESS IS Required TO HAVE A USERNAME AND PASSWORD THAT Gives THEM ACCESS TO THE FACILITIES OF THE SYSTEM. IF A USER FORGETS HIS PASSWORD, HE CAN USE THE FORGOT PASSWORD OPTION TO RECOVER IT.
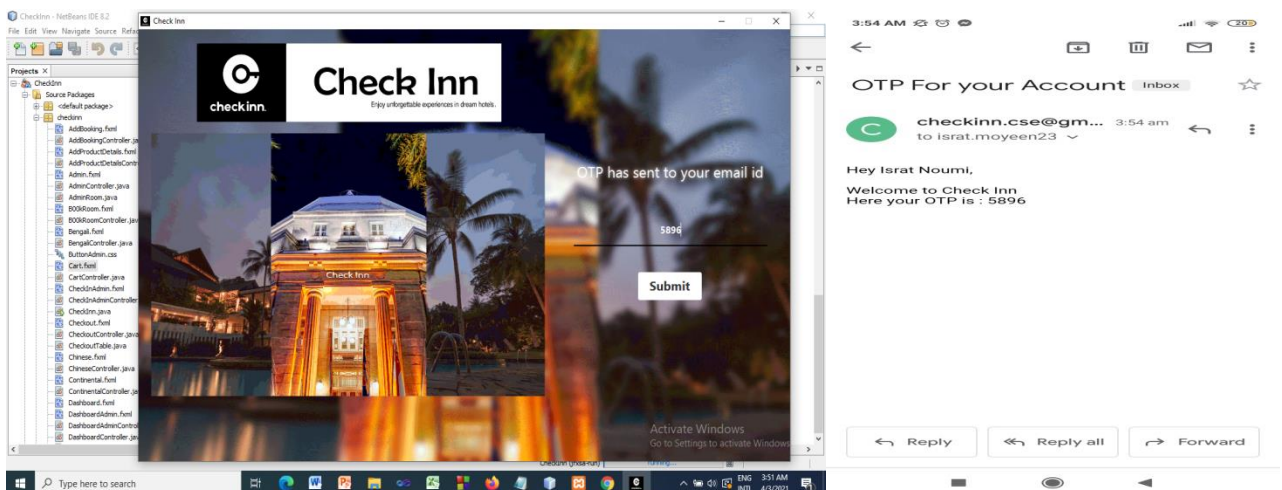

FOR SECURITY PURPOSE, WE HAVE CREATED A DEFAULT ADMIN LOGIN ID AND PASSWORD (WHICH HAS BEEN CONVERTED TO HASHPASSWORD).ONLY THE OWNER OF THE HOTEL HAS THE ACCESS OF THIS ID AND PASSWORD. HE CAN CREATE ACCOUNT FOR ANY ADMIN OF THE HOTEL. AFTER LOGIN AS ADMIN YOU CAN CREATE YOUR OWN ID AND PASS FROM EMPLOYEE SECTION.
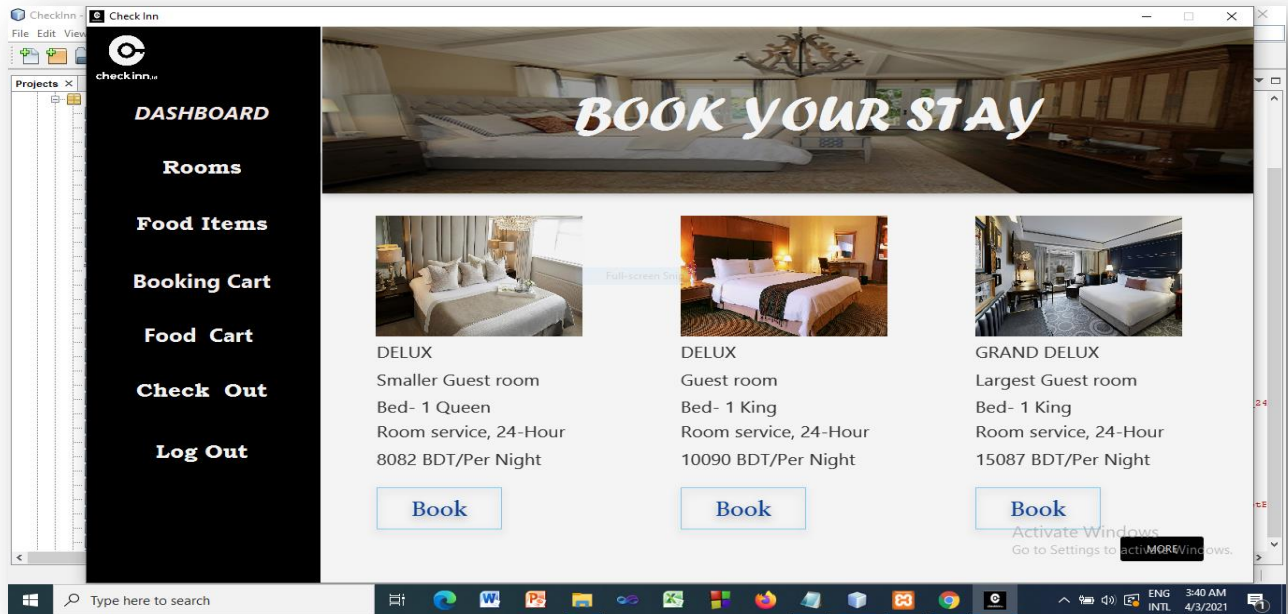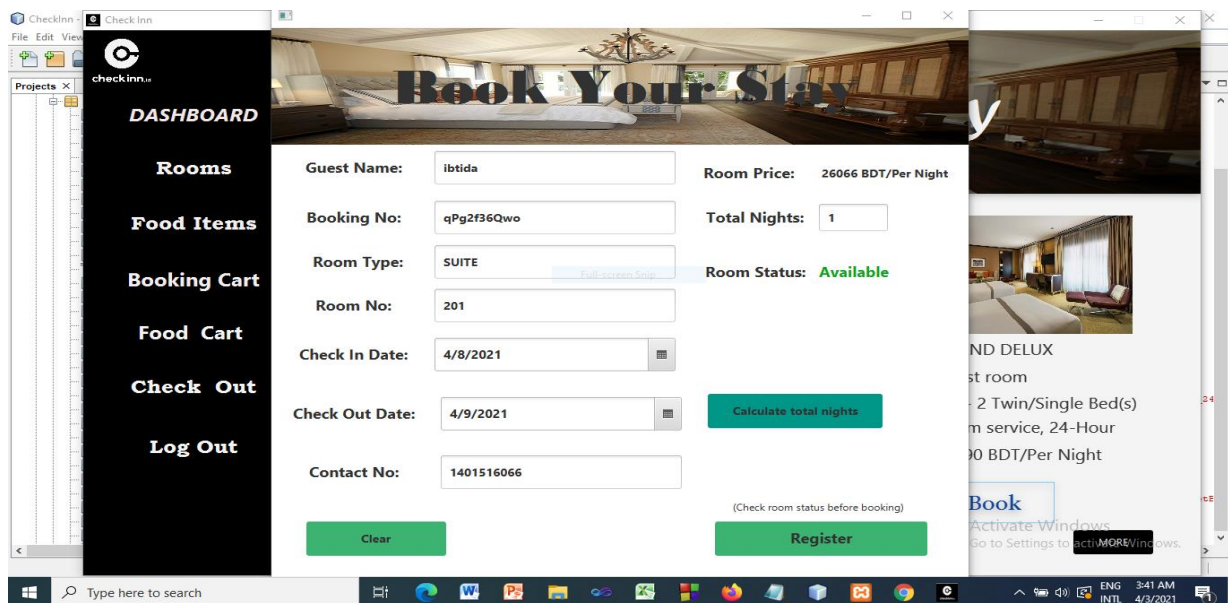
USER SECTION

- **User Registration:** THERE IS USER REGISTRATION FORM AVAILABLE WHERE NEW USERS CAN CREATE THEIR ACCOUNT BY PROVIDING REQUIRED INFORMATION TO THE SYSTEM. SUCH AS-USERNAME, EMAIL, PASSWORD, ADDRESS, GENDER AND CONTACT NO. THEY MUST REMEMBER THEIR USERNAME AND PASSWORD FOR FUTURE LOGIN PROCEDURE.
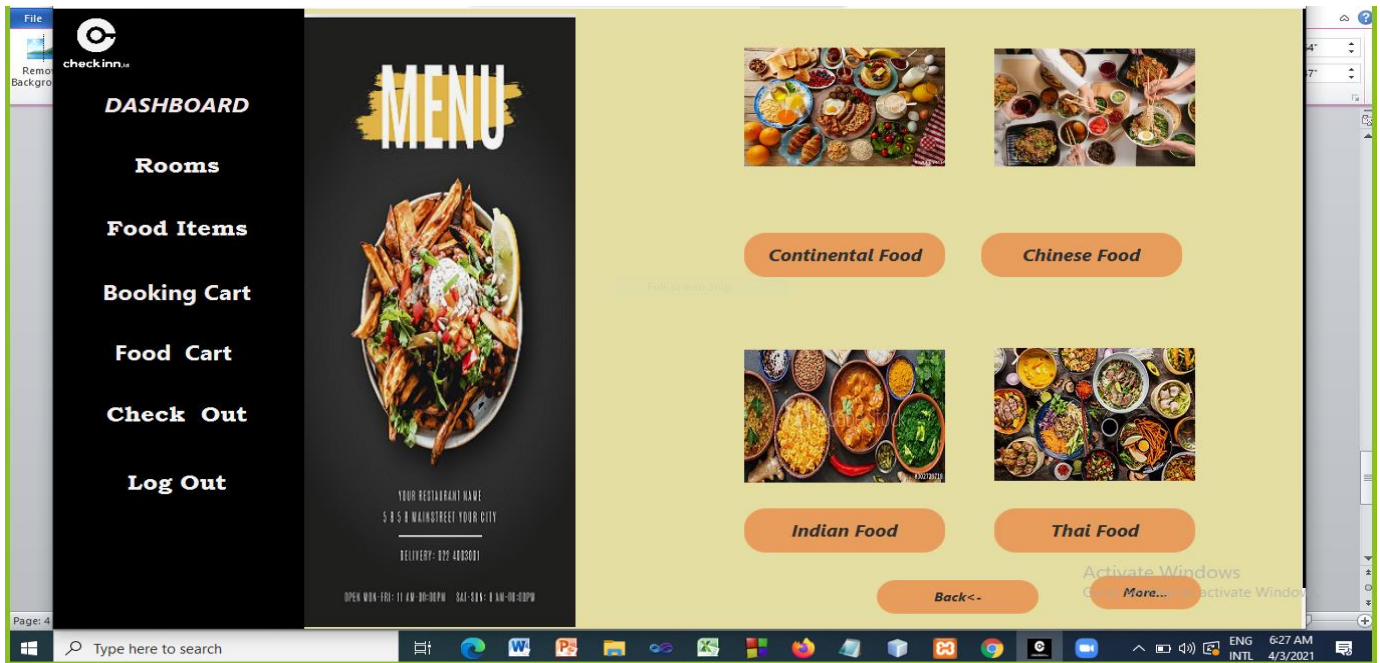

- **OTP:** OTP SYSTEM IS ALSO IMPLEMENTED WITHIN THIS SYSTEM FOR **SECURITY PURPPOSE SO** THAT UNAUTHENTICATED USER CAN'T GET ACCESS TO THE SYSTEM. IF A PERSON TRIES TO SIGN UP TO THE SYSTEM, AN OTP WILL BE SENT TO HIS GIVEN EMAIL FROM THE EMAIL checkinn.cse@gmail.com FOR AUTHENTICATION PURPOSE. IF HE CAN **ENTER THE** CORRECT OTP, HIS SIGNUP WILL BE SUCCESSFUL IN THE SYSTEM.

- **ROOMS:** THIS HOTEL HAS A TOTAL OF 19 DIFFERENT KINDS OF ROOMS. A USER CAN BROWSE THEESE ROOMS, REVIEW THE DETAILS, COMPARE THE PRICES, AND THEN BOOK THE ROOM OF HIS CHOICE.
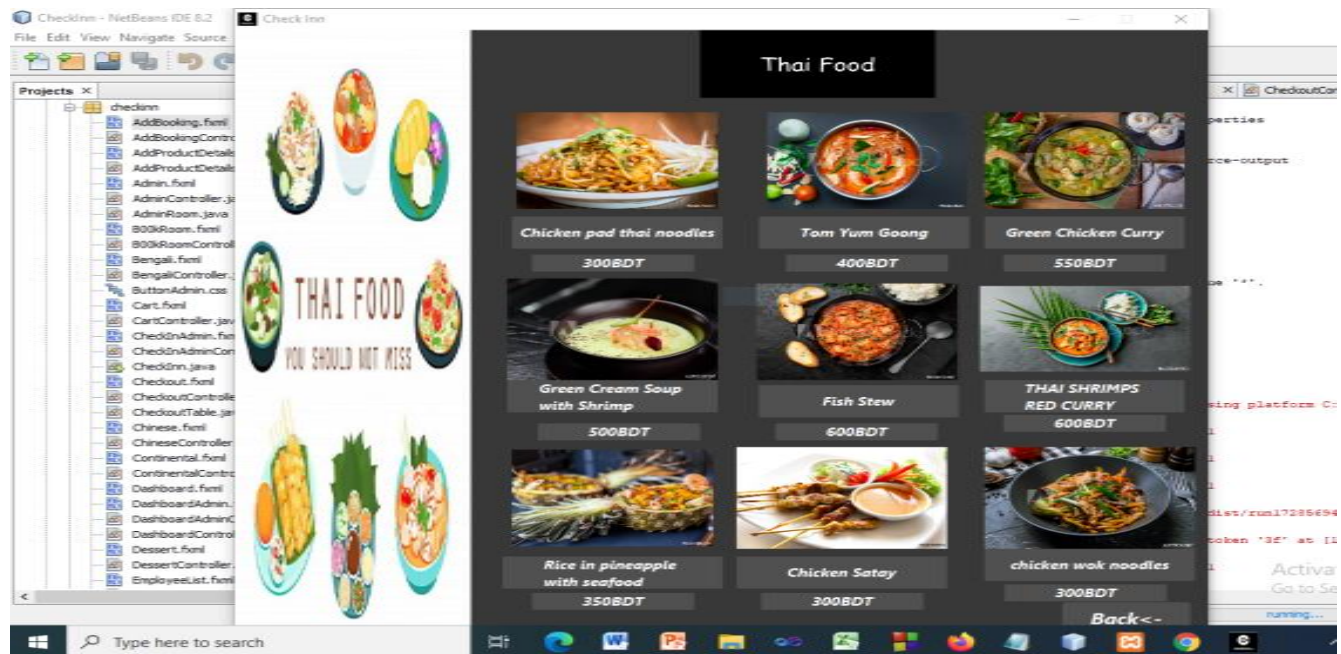

- **BOOK ROOM:** AFTER COMPLETING THE BOOKING FORM, A USER CAN BOOK HIS DESIRED ROOM ONLY IF IT IS AVAILABLE. ROOM STATUS IS AN ESSENTIAL PART OF THIS SYSTEM, EVERYTHING FROM THE BOOKING AND ROOM REGISTRATIONS WILL BE BASED ON THE CURRENT STATUS OF THE ROOM. THERE ARE 2 MAIN STATUSES FOR EACH ROOM WITHIN THE SYSTEM, AVAILABLE AND UNAVAILABLE.
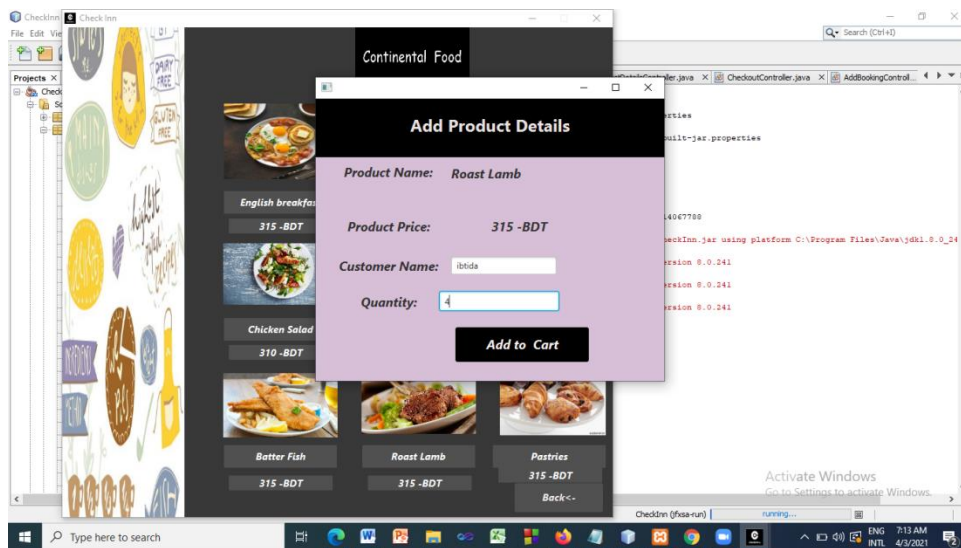
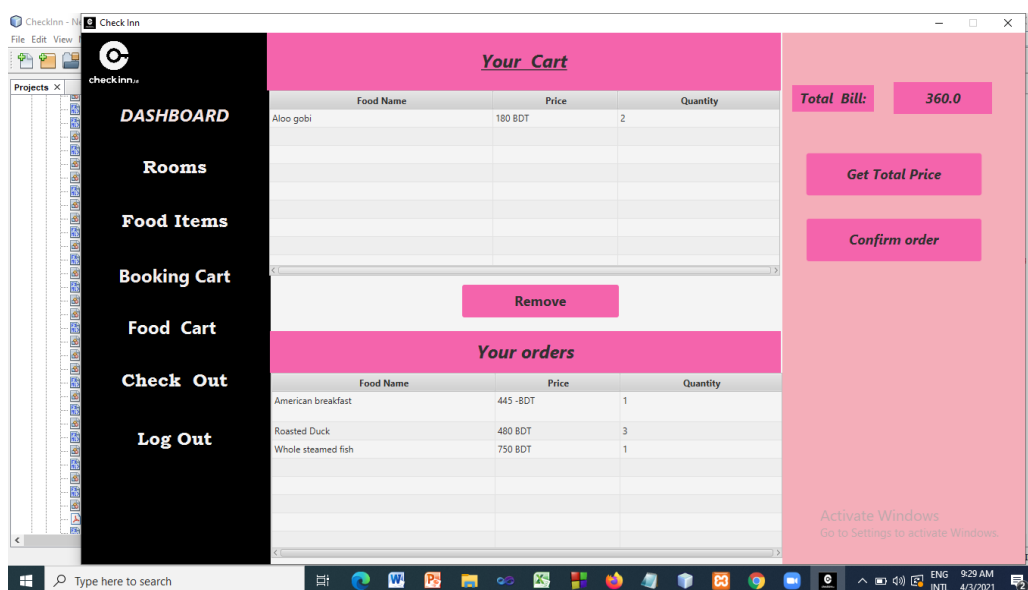- **_Food Items:_** **THE MENU CONTAINS A TOTAL OF EIGHT DIFFERENT CUISINES.**

1. **CONTINENTAL FOOD**   2. **INDIAN FOOD**   3. **THAI FOOD**   4. **CHINESE FOOD**

5. **BENGALI FOOD**   6.**DESSERT ITEMS**   7.**ITALIAN FOOD**   8.**ICE CREAMS**
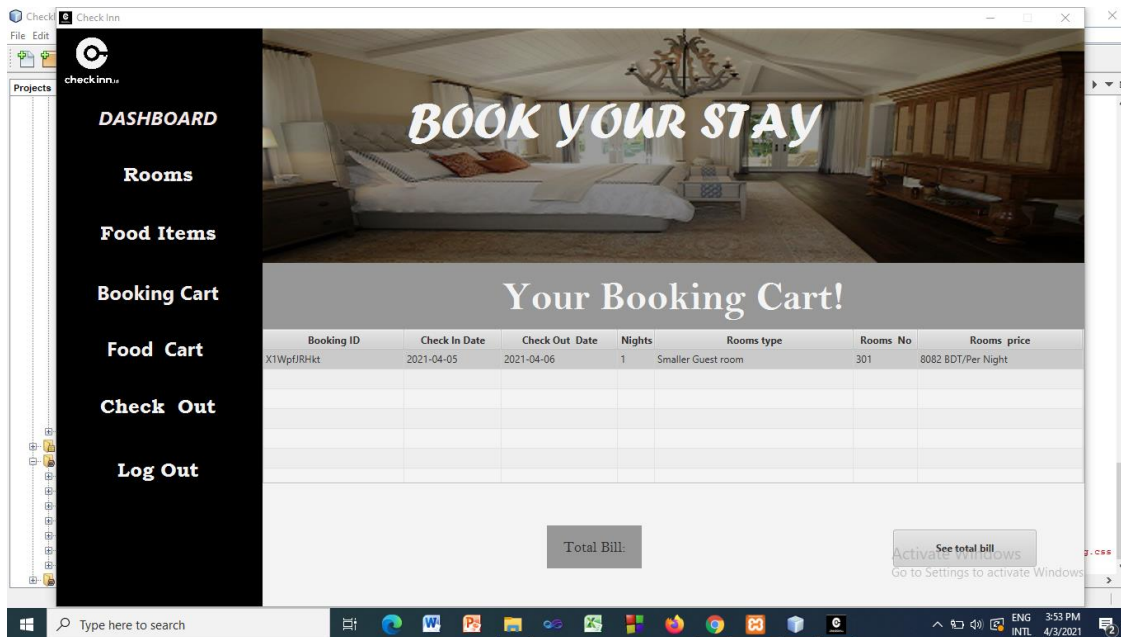

 AS WELL AS A COMPREHENSIVE MENU WITH FOOD NAMES, PRICES, AND OTHER DETAILS FOR EACH CUISINE.
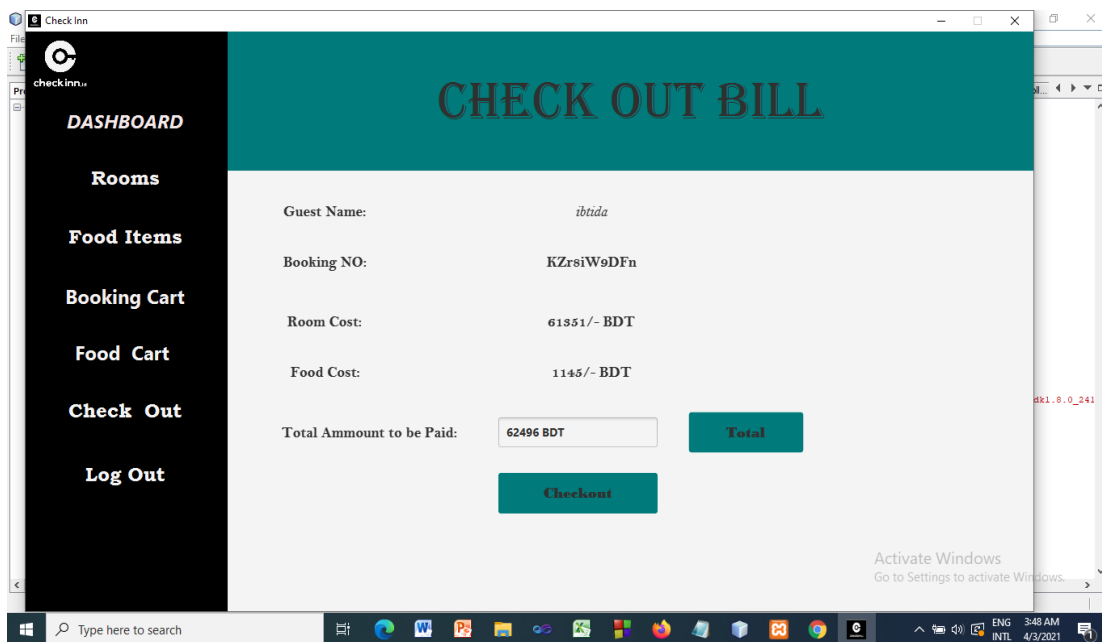
- **ADD FOOD TO CART**: ANY FOOD FROM THE FOOD ITEMS CAN BE ORDERED BY A CUSTOMER WHILE STAYING IN THE HOTEL. THE CUSTOMER MUST OFFER THE FOOD QUANTITY BY CLICKING ON THE FOOD PICTURE ON A NEW TAB. THE FOOD WILL BE ADDED TO HIS FOOD CART AFTER PRESSING THE ADD TO CART BUTTON.

- **FOOD CART:** IN THE FOOD CART AREA, A CUSTOMER CAN SEE THE SPECIFICS OF HIS FOOD ORDER AS WELL AS THE TOTAL PRICE. WITH THE REMOVE BUTTON, HE CAN ALSO REMOVE SOME FOOD FROM HIS CART. A FOOD ORDER WILL BE PLACED ON HIS NAME AFTER HE CLICKS THE CONFIRM BUTTON. IN THE YOUR ORDERS TABLE, A CUSTOMER WILL SEE HIS CONFIRMED FOOD ORDERS.
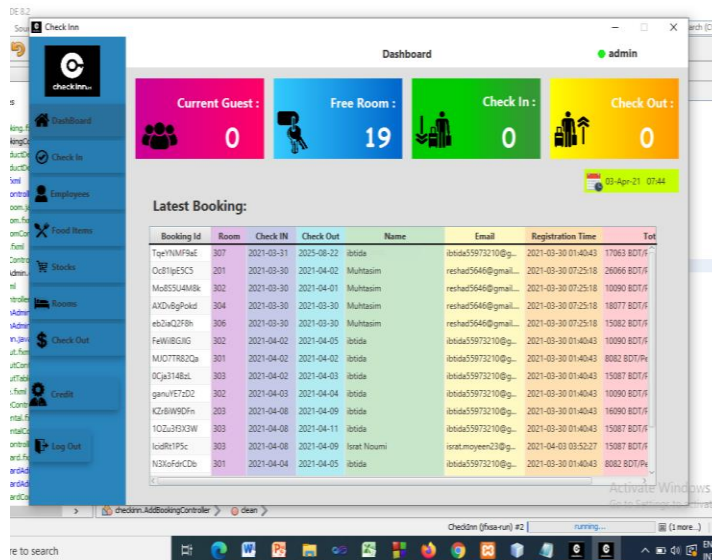
- **BOOKING CART:** A USER CAN VIEW HIS ROOM BOOKING INFO, SUCH AS BOOKING ID, CHECK IN DATE, CHECK OUT DATE, ROOM NO, AND ROOM PRICE, ON THE BOOKING CART TAB. HE CAN ALSO FIND OUT HOW MUCH HIS ENTIRE STAY WOULD COST ON THIS PAGE.
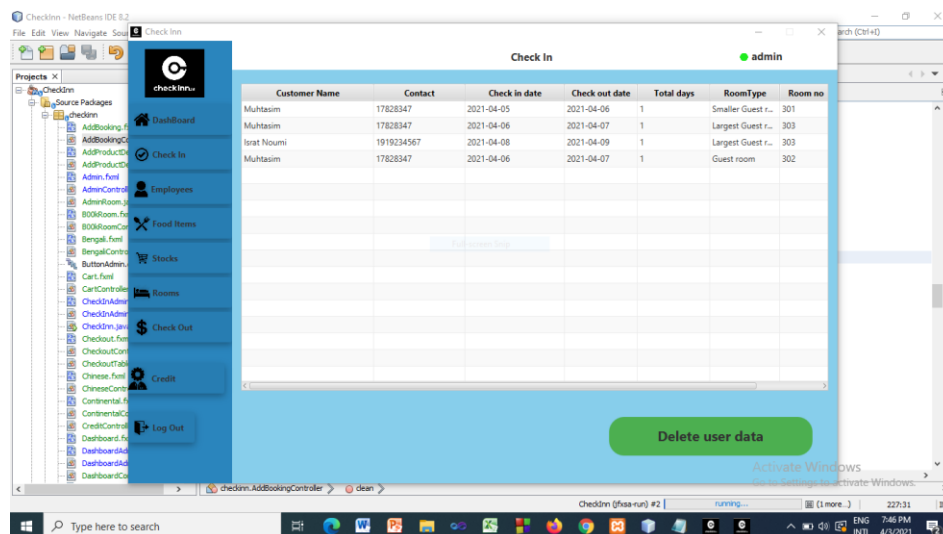

- **CHECK OUT:** IN THE CHECKOUT OPTION, A USER CAN SEE HIS TOTAL BILL INCLUDING FOOD BILL AND ROOM BILL. AFTER COMPLETING HIS PAYMENT AND CLICKING OK ON THE CONFIRMATION DIALOG HE CAN CHECKOUT FROM THE HOTEL. A THANK YOU MAIL WILL BE SENT TO THE USER'S MAIL FROM THE CHECK INN HOTEL TEAM AFTER CHECKOUT.
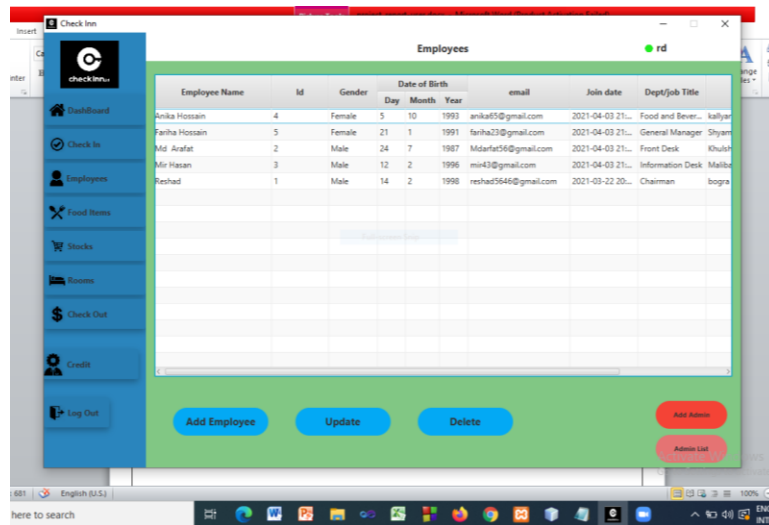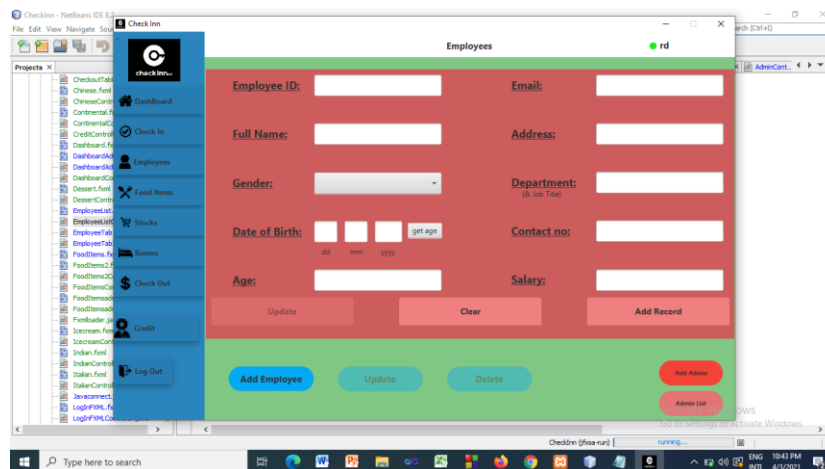
ADMIN SECTION

- **ADMIN DASHBOARD:** AN ADMIN CAN VIEW LATEST BOOKING INFORMATION INCLUDING USER'S INFO, CURRENT GUEST NUMBERS, FREE ROOMS, CHECK IN'S AND CHECK OUT DETAILS IN THE ADMIN DASHBOARD.
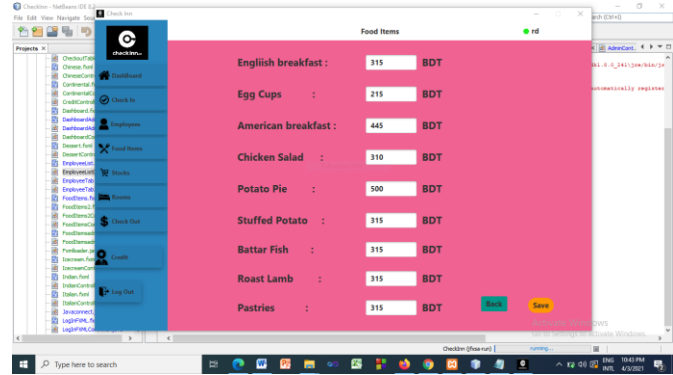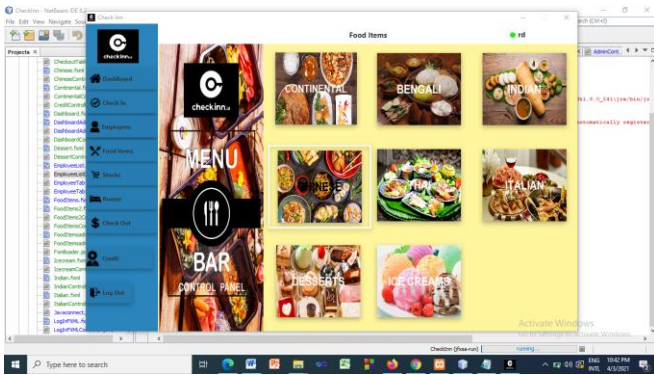

- **CHECK IN:** IN THE CHECK IN SECTION ,AN ADMIN CAN SEE ALL THE LATEST BOOKING DETAILS SUCH AS: GUEST NAME,CONTACT NO, CHECK IN DATE,CHECK OUT DATE,ROOM TYPE,ROOM NO TOTAL DAYS ETC. AN ADMIN ALSO HAS THE ACCESS TO DELETE ANY USERS DATA.

- **EMPLOYEE LIST:** AN ADMIN CAN SEE ALL THE SPECIFICS OF THE HOTEL'S CURRENT EMPLOYEES IN THE EMPLOYEE SECTION, INCLUDING NAME, ID, JOB TITLE, SALARY, DEPARTMENT, CONTACT NO, AND SO ON. HE CAN ALSO UPDATE ANY DETAILS ABOUT THEM AND DELETE ANY EMPLOYEE'S DATA FROM THE TABLE IF THEY ARE NO LONGER WORKING WITH THE HOTEL.
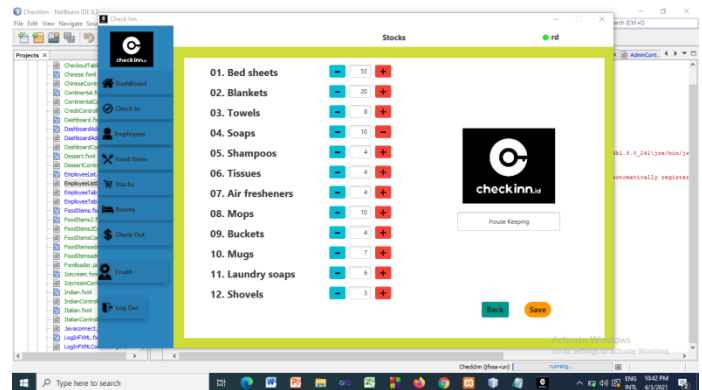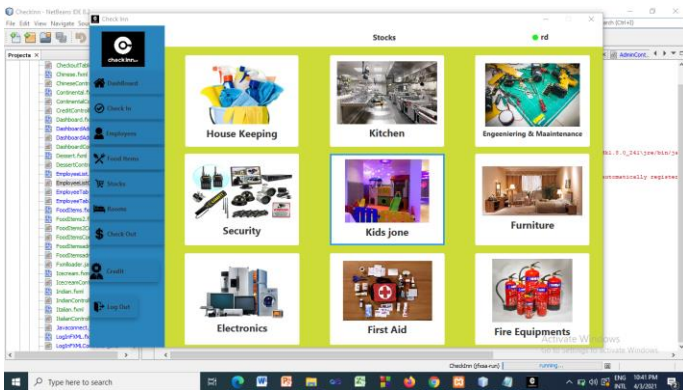

> AFTER CHECKING THEIR QUALIFICATION AND PERSONAL DETAILS, AN ADMIN Will RECRUIT NEW EMPLOYEES IN THE HOTEL.
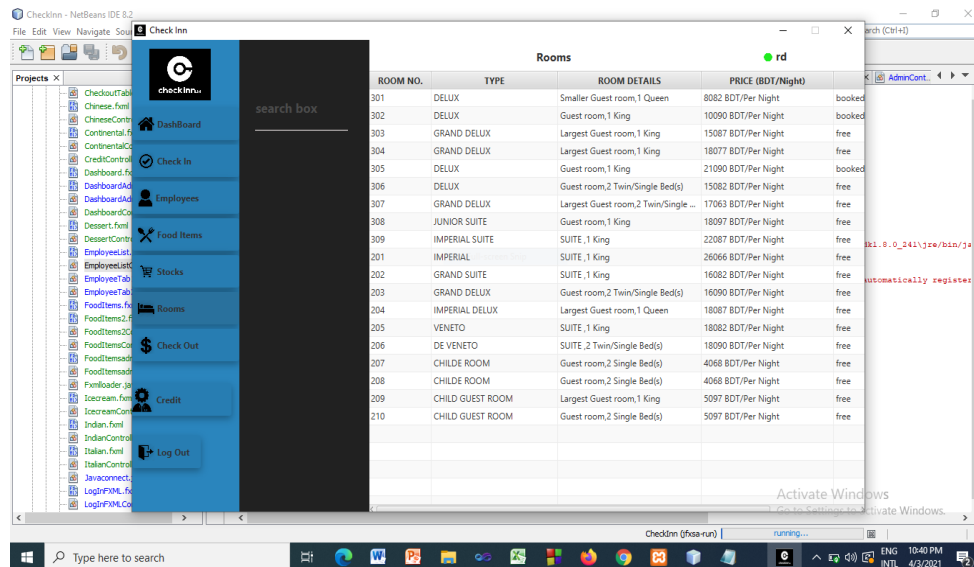
- ## FOOD ITEMS:

  IN THIS SYSTEM WE HAD ADDED FOOD ITEMS AND IN THE ADMIN
  SECTION ADMIN MAY ADAPT THE COST OF EACH ITEM AS REQUIRED.
  THIS SEGMENT HAS VARIOUS TYPES OF DISHES BASED ON ASIAN CUISINE
  FROM CULTURED TO CLASSIC DISHES. FOOD LOVERS MAY PLACE ORDER
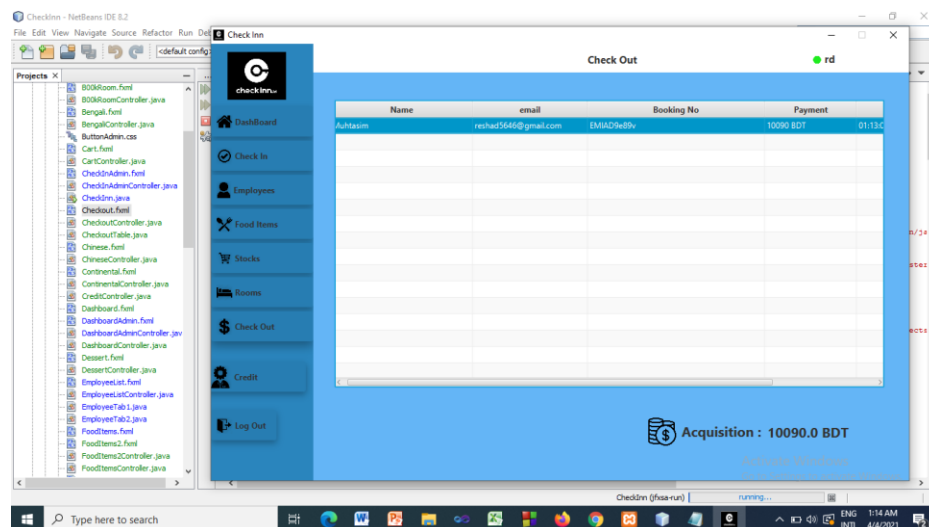 AND MAINTAIN THE QUANTITY OF THE FOODS.

- ## STOCKS:

  A HOTEL MANAGEMENT IS NOT AN EASY TASK TO MAINTAIN. FROM TOP TO BOTTOM
  THE HOTEL SHOULD MAINTAIN PROPER SERVICE AND GIVE ALL KINDS OF FACILITIES TO
  THE CUSTOMERS. KEEPING TRACK OF STOCKS CAN MAKE SURE THE MAINTENANCE OF
  THIS. SO WE CREATED AN ONLINE BASED STOCK SYSTEM THAT CAN BE CUSTOMIZED BY
  THE HOTEL AUTHORITIES AS THEY REQUIRED. FOR INSTANCE HOUSEKEEPING, SECURITY,
  KITCHEN AND MORE OF THE SAME.

- **<u>ROOMS:</u>** IN THE ROOMS SECTION, AN ADMIN CAN VIEW ALL THE DETAILS ABOUT THE ROOMS OF THE HOTEL SUCH AS-ROOM NO, ROOM TYPE, PRICE PER NIGHT AND CAN ALSO CHECK IF THE ROOM IS CURRENT BOOKED OR FREE.

- **<u>CHECK OUT:</u>** IN THE CHECKOUT SECTION, AN ADMIN CAN VIEW CHECKOUT DETAILS OF THE CUSTOMERS OF THE HOTEL SUCH AS-NAME, EMAIL AND TOTAL PAYMENT DONE BY THE CUSTOMERS ETC.

NECESSARY SOFTWARE TOOLS :

THIS ENTIRE SYSTEM DEVELOPMENT IS JAVA-BASED APPLETS. THIS INCLUDES SOME MUST HAVE TOOLS-

1. NETBEANS IDE
2. JDK 1.8
3. JAVAFX 15
4. SCENE BUILDER
5. MYSQL
6. XAMPP

JAVA LIBRARIES:

1. MYSQL-CONNECTOR-JAVA-8.0.23.JAR
2. JFOENIX-9.0.10.JAR
3. JFOENIX-8.0.2.JAR
4. ACTIVATION.JAR
5. COMMONS -CODEC-1.15.JAR
6. MAIL.JAR

CONCLUSION:

IN THIS COURSE TO SOFTWARE DEVELOPMENT, WE HAVE EXTENDED OUR KNOWLEDGE OF THE IMPORTANT IDEAS IN SOFTWARE DEVELOPMENT WITH JAVA. WE ANALYZED THE FEATURES OF A GOOD SOFTWARE SYSTEM AND CONSIDERED WHAT A PRODUCTION PROCESS WOULD TAKE TO CREATE SUCH SOFTWARE. THE OVERALL SOFTWARE DEVELOPMENT WAS CONSTRUCTED AROUND THE USERS' REQUIREMENTS.

FINALLY, WE HAVE DEVELOPED A SECURE, USER-FRIENDLY HOTEL MANAGEMENT SYSTEM. THIS SYSTEM CAN TAKE CARE OF EACH MEMBER WHETHER ITS OWNER OR CUSTOMERS. THIS SYSTEM WILL HELP   TO PROPERLY MANAGE THE HOTEL   AND HELP IN GROWTH WITHOUT CREATING ANY HASSLE.